

## Photometry and Radiometry, Turkey, UME (Tubitak Ulusal Metrologi Enstitüsü)



Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty						
Quantity	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage factor	Level of Confidence	Is the expanded uncertainty a relative one?	NMI Service Identifier	Comments
Luminous intensity	Tungsten lamp	Photometer	1	10000	cd	Colour temperature	2856 K	1.2	%	2	95%	Yes		
Illuminance responsivity, tungsten source	Illuminance meter	Reference photometer and reference lamps on photometric bench			A/lx	Illuminance	10 lx to 100 lx	1.4	%	2	95%	Yes		
						Colour temperature	2856 K							
Illuminance responsivity, tungsten source	Illuminance meter	Reference photometer and reference lamps on photometric bench			A/lx	Illuminance	100 lx to 1000 lx	1.5	%	2	95%	Yes		
						Colour temperature	2856 K							
Responsivity, spectral	Broad band detector	Monochromator with incandescent lamps	1E-03	1	A/W	Wavelength	250 nm to 350 nm	4.8	%	2	95%	Yes		
						Bandwidth	0.9 nm to 3 nm							
						Power level	0.005 mW to 0.5 mW							
Responsivity, spectral	Broad band detector	Monochromator with incandescent lamps	1E-03	1	A/W	Wavelength	350 nm to 400 nm	3.3	%	2	95%	Yes		
						Bandwidth	1 nm to 3 nm							
						Power level	0.005 mW to 0.5 mW							
Responsivity, spectral	Broad band detector	Monochromator with incandescent lamps	1E-03	1	A/W	Wavelength	400 nm to 780 nm	0.6	%	2	95%	Yes		
						Bandwidth	0.5 nm to 4 nm							
						Power level	0.005 mW to 0.5 mW							

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Responsivity, spectral	Broad band detector	Monochromator with incandescent lamps	1E-03	1	A/W	Wavelength	780 nm to 920 nm	0.8	%	2	95%	Yes		
						Bandwidth	1 nm to 5 nm							
						Power level	0.005 mW to 0.5 mW							
Responsivity, spectral	Broad band detector	Monochromator with incandescent lamps	1E-03	1	A/W	Wavelength	920 nm to 1100 nm	6.3	%	2	95%	Yes		
						Bandwidth	2 nm to 6 nm							
						Power level	0.005 mW to 0.5 mW							
Illuminance responsivity	Illuminance meter	Substitution with reference photometers			A/lx	Illuminance	0.1 lx to 300 lx	0.6	%	2	95%	Yes	G1FM-3500	Approved on 07 May 2007
						Colour temperature	2000 K to 3000 K							
Illuminance responsivity	Illuminance meter	Substitution with reference photometers			A/lx	Illuminance	300 lx to 5000 lx	0.6	%	2	95%	Yes	G1FM-3600	Approved on 07 May 2007
						Colour temperature	2800 K to 3200 K							
Illuminance	Tungsten lamps	Reference photometers	0.1	300	lx	Correlated color temperature	2000 K to 3200 K	0.7	%	2	95%	Yes	G1FM-3500	Approved on 07 May 2007
Illuminance	Tungsten lamps	Reference photometers	300	5000	lx	Correlated color temperature	2000 K to 3200 K	0.7	%	2	95%	Yes	G1FM-3600	Approved on 07 May 2007